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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29836.3-2013

**Usability of system and software -- Part 3: Method of evaluating
and testing**

系统与软件易用性 第3部分：测评方法

(English Translation)

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Foreword

GB/T 29836 in the "System and software usability" general title, currently divided into the following three parts.

- Part 1. Index System;
- Part 2. Measurement Methods;
- Part 3. Measurement methods.

This section GB/T Part of 329,836.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section is drafted. Zhuhai Southern Software Network Evaluation Center, China Electronics Standardization Institute, Beijing University of Posts and Telecommunications, Nanning Square Software Technology Co., Ltd., the state of application software products for Quality Supervision and Inspection Center, the Ministry of Education Examination Center, Shanghai Computer Software Member technology development center, Shanghai Pudong Software Platform Limited, a Shanghai Baoxin Software Co., Ltd., Shanghai Lu Qixin Information Technology the company.

Introduction

This section GB/T 29836 presented usability evaluation methods and evaluation process. This section covers the basic current mainstream accessibility Evaluation methods, the evaluation process of these methods are described, the concrete steps that can facilitate user operations. This section the method of the column is not a complete set, is still exploring new methods not included. Conduct usability evaluation of staff can be selected from this section Suitable single method or a combination of multiple methods for measuring the quality of the tested system's ease of use cases; also can modify or use this Other methods not included in the section. This section applies to a variety of computer software products and related systems with human-computer interaction, but not every the method is suitable for a variety of computer software products and related systems.

The main users of this standard is expected to include.

- a) the demand side (obtained from the supplier or procurement system, software product or software service individual or organization);
- b) the independent evaluator (no relation to the interests of software, by the individual or organization entrusted the implementation of independent evaluation);
- c) developer (the implementation of development activities an individual or organization);
- d) Defenders (individual or organization to perform maintenance activities);
- e) supplier (the contract provided by the system, organization or individual software product or software service to the acquirer), which is indeed the eligibility test when using recognized software quality;
- f) the user (using the software product to perform a specific function of individual or organization) that when evaluating software product quality during acceptance testing use;
- g) quality control manager (software product or software service to perform systematic checks of individuals or organizations), as a quality assurance and quality control when using the Software Quality Evaluation System components.

GB/T 29836.1-2013 "systems and software ease of use - Part 1. Indicator System" gives the ease of index system, GB/T 29836.2-2013 "systems and software ease of use - Part 2. Measurement Methods" shows how to get usability index measurements Measure. This section is intended to be used in conjunction with the GB/T 29836.1-2013 and GB/T 29836.2-2013.

Systems and software usability Part 3. Evaluation Method

1 Scope

This section GB/T 29836 specifies how to get the usability evaluation index measurement method.

This section applies to all types of systems and software have human-computer interaction, this section does not apply to unmanned aerial vehicles, or during use interactive features no usability requirements of system and software.

NOTE: The system referred to in this section are primarily software system.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 11457 software engineering terminology GB/T 16260.1 Software engineering - Product quality - Part 1. Quality model (GB/T 16260.1-2006, ISO/IEC 9126-1:2001, IDT)
GB/T 29836.1-2013 systems and software ease of use - Part 1. Index System GB/T 29836.2-2013 systems and software ease of use - Part 2. Measurement Methods

3 Terms and Definitions

GB/T 29836.1-2013, terms and definitions GB/T 16260.1 and GB/T 11457 apply as defined in this document.

4 Overview

Systems and software usability attributes belong to external software usually requires users to participate in testing. Common usability testing methods are generally divided into Mathematical model, subjective evaluation and objective evaluation of three categories. The main specific usability explanation of the methodology, see Chapter 9.

Test and evaluation in this section referred consistent meaning, no longer do the obvious difference.

Appendix A gives an example of usability evaluation online marking system.

5.1 Obvious features

Clear functional test requirements are as follows.

---Preconditions

Tested software needs have been identified and have the operating conditions;

--- Test input

Requirements specifications, user documentation, software installation package;

--- Measurement type